Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently Amended): A valve for regulating fluid flow comprising:
 - a stepper motor;
 - a first valve chamber that includes an inlet port for receiving fluid into the valve;
- a second valve chamber that includes an outlet port for dispensing fluid from the valve, wherein the first valve chamber includes an opening between the first valve chamber and the second valve chamber;
 - a first member that is rotatable and operatively attached to the stepper motor;
- a second member that engages the first member for linear movement of the second member between a first position and a second position when the first member is rotated by the stepper motor, and stepper motor.
- a sealing mechanism that is operatively attached to the second member, wherein the sealing mechanism can move adjacent to the opening when the second member is in the first position and the sealing mechanism can move away from the opening when the second member is in the second position. second position; and
- a biasing mechanism that is in contact with the second member for returning the sealing mechanism to the second position when power is removed from the stepper motor.

- 2. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, wherein the stepper motor, the first valve chamber, the second valve chamber, the first member, the second member and the sealing mechanism are all enclosed within a housing.
 - 3. (Cancelled).
- 4. (Currently Amended): The valve for regulating fluid flow as set forth in Claim 3, Claim 1, wherein the biasing mechanism includes a return spring.
- 5. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, wherein the first member includes a screw having a plurality of protrusions.
- 6. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, wherein the second member includes a needle having a plurality of indentations.
- 7. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, wherein the second member includes a metering orifice to provide fluid flow between the first valve chamber and the second valve chamber, wherein the metering orifice can be selectively blocked by the sealing mechanism.
- 8. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 7, wherein the metering orifice includes a triangular shape.
- 9. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, wherein the sealing mechanism includes a poppet.

- 10. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, further including a cover member located between the stepper motor and the sealing mechanism.
- 11. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 10, wherein the cover member includes at least one protruding member that can be positioned against the sealing mechanism to secure the sealing mechanism against the opening.
- 12. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 11, wherein the at least one protruding member of the cover member that is capable of being positioned between a plurality of retaining members on the second member to restrict rotation of the second member.
- 13. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, further including a terminal connector mechanism that provides at least one electrical connection to the stepper motor.
- 14. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, wherein the inlet port for the valve is fluidly connected to a bypass loop that receives fluid flow from a engine that was pumped into the engine from a water pump, wherein the outlet port of the valve is fluidly connected to an inlet for the water pump.
- 15. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 1, wherein the inlet port for the valve is capable of fluid connection to an engine and the outlet port of the valve is capable of fluid connection to a heater core.

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- 16. (Currently Amended): A valve for regulating fluid flow comprising:
 - a stepper motor;
 - a first valve chamber that includes an inlet port for receiving fluid into the valve;
- a second valve chamber that includes an outlet port for dispensing fluid from the valve, wherein the first valve chamber includes an opening between the first valve chamber and the second valve chamber;
 - a first member that is rotatable and operatively attached to the stepper motor;
- a second member that engages the first member for linear movement of the second member between a first position and a second position when the first member is rotated by the stepper motor;
- a sealing mechanism that is operatively attached to the second member, wherein the sealing mechanism can move adjacent to the opening when the second member is in the first position and the sealing mechanism can move away from the opening when the second member is in the second position;
- a biasing mechanism that is in contact with the second member, and for returning the sealing mechanism to the second position when power is removed from the stepper motor; and
- a housing that encloses the stepper motor, the first valve chamber, the second valve chamber, the first member, the second member, the biasing mechanism and the sealing mechanism.
 - 17. (Currently Amended): A valve for regulating fluid flow comprising:
 - a stepper motor;
 - a first valve chamber having an inlet port for receiving fluid into the valve;

a second valve chamber having an outlet port for dispensing fluid from the valve, wherein the first valve chamber includes an opening between the first valve chamber and the second valve chamber;

a screw, having a plurality of protrusions, which is rotatable and operatively attached to the stepper motor;

a needle, having a metering orifice and a plurality of indentations, that engages the plurality of protrusions on the screw for linear movement of the needle between a first position and a second position when the screw is rotated by the stepper motor;

a poppet that is operatively attached to the needle, wherein the poppet can move adjacent to the opening when the needle is in the first position and the scaling mechanism can move away from the opening when the needle is in the second position and selectively block the opening of the metering orifice to control fluid flow;

a return spring that is in contact with the needle; and needle for returning the poppet to the second position when power is removed from the stepper motor; and

a housing that encloses the stepper motor, the first valve chamber, the second valve chamber, the screw, the needle, the return spring and the poppet.

- 18. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 17, wherein the metering orifice includes a triangular shape.
- 19. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 17, further including a cover member located between the stepper motor and the poppet that includes at least one protruding member that can be positioned against the poppet to secure the poppet against the opening.

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Amendment A
Application No. 10/604,873
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Attorney Docket No. 718395.41

- 20. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 19, wherein the at least one protruding member of the cover member that is capable of being positioned between a plurality of retaining members on the needle to restrict rotation of the needle.
- 21. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 17, wherein the inlet port for the valve is fluidly connected to a bypass loop that receives fluid flow from a engine that was pumped into the engine from a water pump, wherein the outlet port of the valve is fluidly connected to an inlet for the water pump.
- 22. (Previously Presented): The valve for regulating fluid flow as set forth in Claim 17, wherein the inlet port for the valve is capable of fluid connection to an engine and the outlet port of the valve is capable of fluid connection to a heater core.
- 23. (Currently Amended): A method for regulating fluid flow with a valve comprising:
 rotating a first member that is operatively attached to a stepper motor within a
 valve, having a first valve chamber having an inlet port for receiving fluid into the valve and a
 second valve chamber having an outlet port for dispensing fluid from the valve, wherein the first
 valve chamber includes an opening between the first valve chamber and the second valve
 chamber;

moving a second member that engages the first member between a first position and a second position when the first member is rotated by the stepper motor;

moving a sealing mechanism that is operatively attached to the second adjacent to the opening when the second member is in the first position; and

moving the sealing mechanism away from the opening when the second member is in the second position. second position by applying force against the second member with a biasing mechanism.

24. (Cancelled).

- 25. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 23, further includes controlling the fluid flow through a metering orifice in the second member by selectively blocking the metering orifice with the sealing mechanism.
- 26. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 23, further includes securing the sealing mechanism against the opening with a protruding flange member of a cover member against the sealing mechanism.
- 27. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 23, further including positioning at least one protruding member of a cover member between a plurality of retaining members on the second member to restrict rotation of the second member and lessen the rotational load created by the biasing mechanism.
- 28. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 23, further including:

connecting, in fluid relationship, the inlet port for the valve to a bypass loop that receives fluid flow from an engine, wherein the engine receives fluid that was pumped into the engine from a water pump; and

connecting, in fluid relationship, the outlet port of the valve to an inlet for the water pump.

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29. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 23, further including:

connecting, in fluid relationship, the inlet port for the valve to the engine; and connecting, in fluid relationship, the outlet port of the valve to a heater core.

30. (Previously Presented): A method for regulating fluid flow with a valve comprising: rotating a screw, having a plurality of protrusions, which is operatively attached to a stepper motor within a valve, having a first valve chamber having an inlet port for receiving fluid into the valve and a second valve chamber having an outlet port for dispensing fluid from the valve, wherein the first valve chamber includes an opening between the first valve chamber and the second valve chamber;

moving a needle, having a metering orifice and a plurality of indentations, that engages the plurality of protrusions on the screw for linear movement of the needle between a first position and a second position when the screw is rotated by the stepper motor against a force applied by a return spring;

moving a poppet that is operatively attached to the needle adjacent to the opening when the needle is in the first position; and

moving the poppet away from the opening when the needle is in the second position as well as selectively blocking fluid flow through the metering orifice based on the position of the poppet.

31. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 30, further includes securing the popper against the opening with a protruding flange member of a cover member against the popper.

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- 32. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 30, further including positioning at least one protruding member of a cover member between a plurality of retaining members on the needle to restrict rotation of the needle and lessen the rotational load created by the return spring.
- 33. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 30, further including:

connecting, in fluid relationship, the inlet port for the valve to a bypass loop that receives fluid flow from an engine, wherein the engine receives fluid that was pumped into the engine from a water pump; and

connecting, in fluid relationship, the outlet port of the valve to an inlet for the water pump.

34. (Previously Presented): The method for regulating fluid flow with a valve as set forth in Claim 30, further including:

connecting, in fluid relationship, the inlet port for the valve to the engine; and connecting, in fluid relationship, the outlet port of the valve to a heater core